

calibration dye spots comprising a single pure dye;

for each of the calibration dye spots, generating a dye image containing at least one of the calibration dye spots for each of a plurality of output channels;

for each of the calibration dye spots, measuring an output of each of the output channels to obtain output measurements;

computing a set of correction factors from the output measurements; and

applying the set of correction factors to data obtained from microarray images containing spots having dyes with excitation or emission spectra to obtain crosstalk-corrected data.

Sub C2
10. (Amended) A system for automatically creating crosstalk-corrected data of a microarray wherein crosstalk is caused by overlapping dye emission spectra, the system comprising:

a microarray substrate having calibration dye spots, each of the calibration dye spots comprising a single pure dye;

an image having a plurality of output channels wherein for each of the calibration dye spots the image generates a dye image containing at least one of the calibration dye spots for each of the output channels;

means for measuring an output of each of the output channels for each of the calibration dye spots to obtain output measurements;

means for computing a set of correction factors from the output measurements;

and

means for applying the set of correction factors to data obtained from microarray images containing spots having dyes with excitation or emission spectra to obtain crosstalk-corrected data.

Remarks

In the Office Action dated October 12, 2000, the Examiner has rejected claims 1-18 under 35 U.S.C. 102(b) as being anticipated by Shalon et al. (Genome Research, July 1996, hereinafter "*Shalon*"). The Examiner has also indicated claims 1-18 as being subject